

### **Abstract**

The present invention is directed at a thermostat using a clock burst to control a temperature trip point without the use of an external resistor. A clock burst is applied to a clock input pin from which a counter is used to count the number of pulses.

- 5 The output of the counter is used to drive a DAC that sets the trip point. No external resistor is needed. This trip point provides a low pin count, flexibility, and high accuracy.